

Applicant : Ewald Guenther et al.
Serial No. : 10/065,254
Filed : September 30, 2002
Page : 2 of 7

Attorney's Docket No.: 12406-102001 / P2002,0611 US
E1

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A device comprising:
a substrate with a device region, wherein the device region comprises one or more cells;
a cap for encapsulating the device, the cap creates a cavity over the device region; and
spacer particles on the substrate to support the cap, the spacer particles comprising a base
and an upper portion, the base having a first surface adjacent to the substrate, the first surface
having a first width, the base first width being at least equal to or wider than the upper portion.
2. (Currently Amended) The A device comprising: of claim 1
a substrate with a device region, wherein the device region comprises one or more cells;
and
spacer particles on the substrate to support the cap, the spacer particles having a base that
is wider than an upper portion and the spacer particles having a non-spherical shape;
wherein the cells comprise OLED cells for forming an OLED device.
3. (Previously Presented) The device of claim 1 or 2 wherein the spacer particles
comprise a half-spherical shape.
4. (Previously Presented) The device of claim 3 wherein the spacer particles
comprise a non-conductive material.

Applicant : Ewald Guenther et al.
Serial No. : 10/065,254
Filed : September 30, 2002
Page : 3 of 7

Attorney's Docket No.: 12406-102001 / P2002,0611 US
E1

5. (Previously Presented) The device of claim 4 wherein the spacer particles comprise an average height to maintain the height of the cavity.

6. (Previously Presented) The device of claim 4 wherein the spacer particles comprise a density to maintain separation between the cap and the device region.

7. (Previously Presented) The device of claim 3 wherein the spacer particles comprise glass, silica, polymers, ceramic or photoresist.

8. (Previously Presented) The device of claim 7 wherein the spacer particles comprise an average height to maintain the height of the cavity.

9. (Previously Presented) The device of claim 7 wherein the spacer particles comprise a density to maintain separation between the cap and the device region.

10. (Previously Presented) The device of claim 3 wherein the spacer particles comprise an average height to maintain the height of the cavity.

11. (Previously Presented) The device of claim 3 wherein the spacer particles comprise a density to maintain separation between the cap and the device region.

12. (Previously Presented) The device of claim 3 wherein the density is about 10-1000 No/mm².

13. (Previously Presented) The device of claim 3 wherein an average distance between the spacer particles is about 100 - 500µm.

Applicant : Ewald Guenther et al.
Serial No. : 10/065,254
Filed : September 30, 2002
Page : 4 of 7

Attorney's Docket No.: 12406-102001 / P2002,0611 US
E1

14. (Previously Presented) The device of claim 1 or 2 wherein the spacer particles comprise a pyramidal, cubical, prism, regular or irregular shape.

15. (Previously Presented) The device of claim 14 wherein the spacer particles comprise a non-conductive material.

16. (Previously Presented) The device of claim 15 wherein the spacer particles comprise an average height to maintain the height of the cavity.

17. (Previously Presented) The device of claim 15 wherein the spacer particles comprise a density to maintain separation between the cap and the device region.

18. (Previously Presented) The device of claim 14 wherein the spacer particles comprise glass, silica, polymers, ceramic or photoresist.

19. (Previously Presented) The device of claim 18 wherein the spacer particles comprise a density to maintain separation between the cap and the device region.

20. (Previously Presented) The device of claim 14 wherein the density is about 10-1000 No/mm².

21. (Previously Presented) The device of claim 14 wherein an average distance between the spacer particles is about 100 - 500µm.

22 - 42. (Canceled)

43. (Previously Presented) The device of claim 18 wherein the spacer particles comprise an average height to maintain the height of the cavity.

Applicant : Ewald Guenther et al.
Serial No. : 10/065,254
Filed : September 30, 2002
Page : 5 of 7

Attorney's Docket No.: 12406-102001 / P2002,0611 US
E1

44. (Previously Presented) The device of claim 14 wherein the spacer particles comprise an average height to maintain the height of the cavity.

45. (Previously Presented) The device of claim 14 wherein the spacer particles comprise a density to maintain separation between the cap and the device region.

46. (Previously Presented) An organic electrical device comprising:
a substrate with a device region, wherein the device region comprises one or more cells having one or more organic layers arranged between a lower first and an upper second electrode in the device region;
a cap for encapsulating the device, the cap creates a cavity over the device region; and
spacer particles on the substrate to support the cap, the spacer particles comprise a profile having a base and an upper portion in which a width of the base is equal to or wider than a width of the upper portion, wherein the profile of the spacer particles seals edges of the second electrode.

47. (Previously Presented) The device of claim 46 wherein the second electrode covers the spacer particles.

48. (Previously Presented) The device of claim 46 wherein the one or more organic layers comprise electroluminescent material.